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Environmental Protection  
Agency

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March 1985

Research and Development



# AERIAL PHOTOGRAPHIC ANALYSIS OF EIGHT HAZARDOUS WASTE SITES

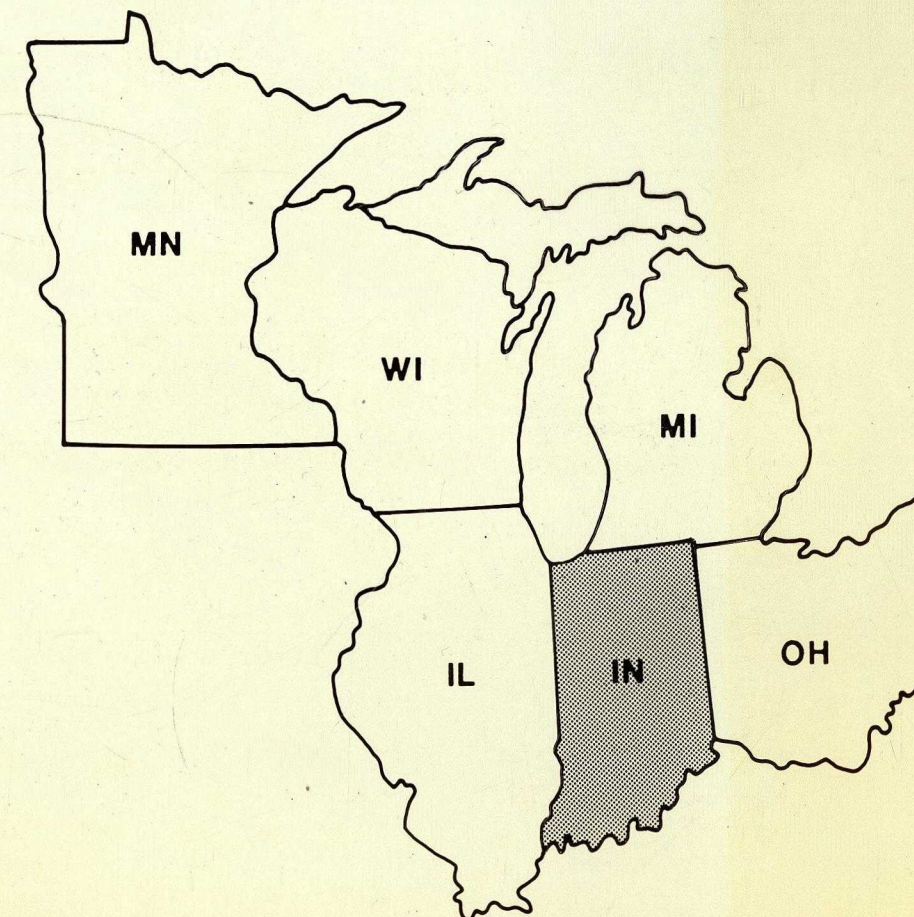
## Indiana

EPA Region 5

EPA Region 5 Records Ctr.



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AERIAL PHOTOGRAPHIC ANALYSIS OF  
EIGHT HAZARDOUS WASTE SITES

Indiana

by

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Contract No. 68-03-3245

Project Officer

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OFFICE OF RESEARCH AND DEVELOPMENT  
U.S. ENVIRONMENTAL PROTECTION AGENCY  
LAS VEGAS, NEVADA 89114

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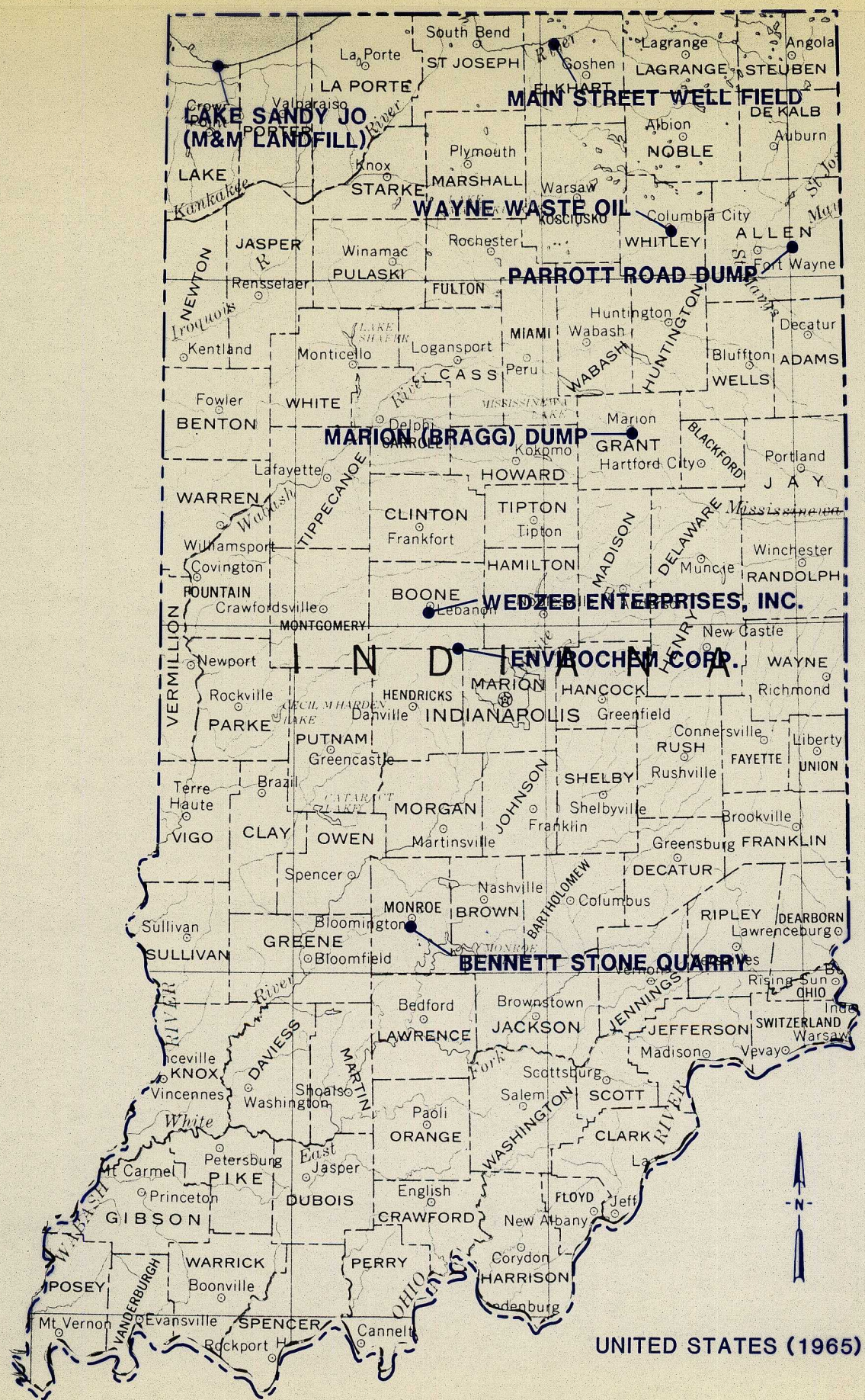


Figure 1. Study area location, Indiana. Scale 1:2,500,000.



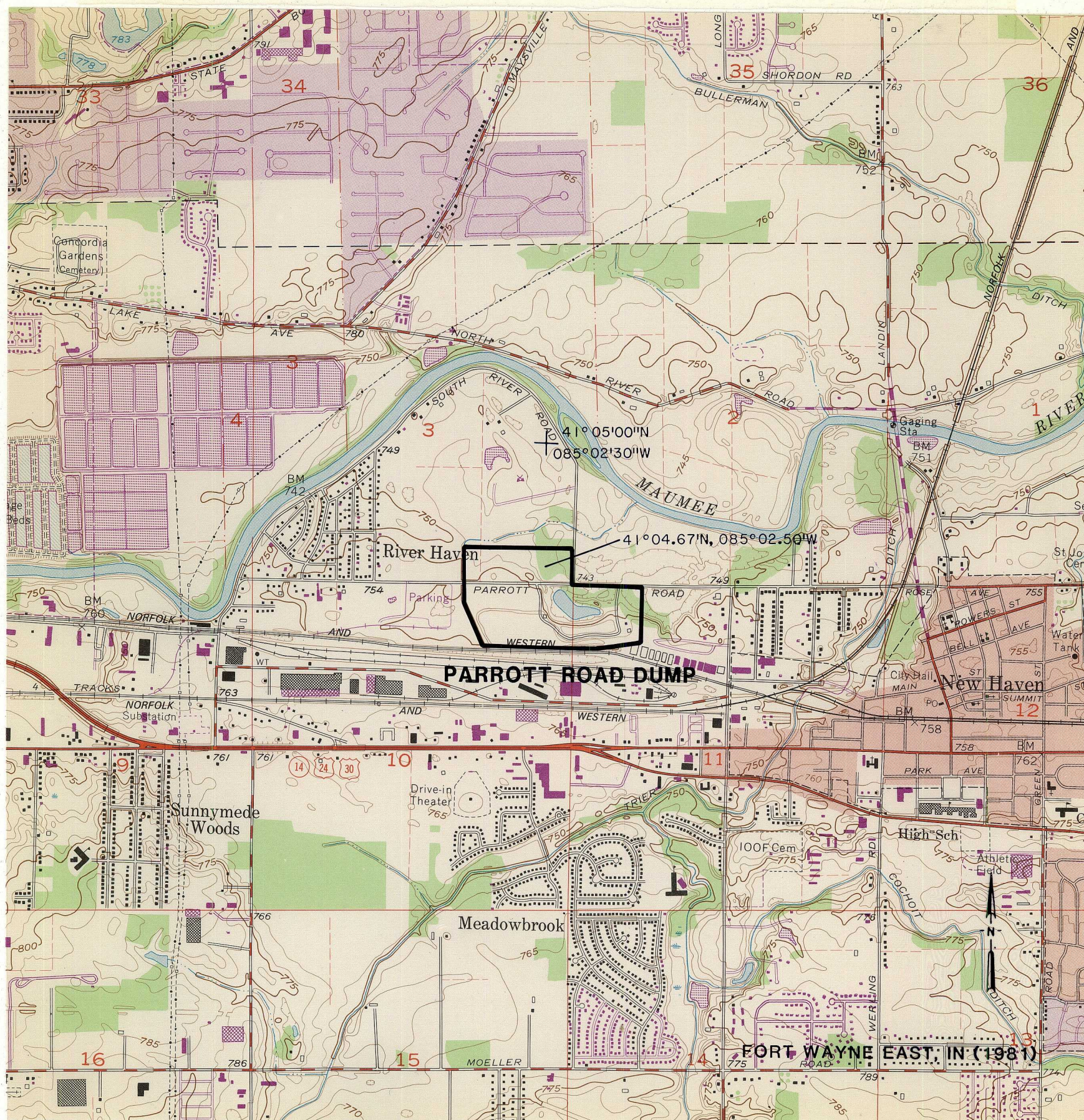


Figure 21. Site location, Parrott Road Dump, New Haven, Indiana. Scale 1:24,000.



## PARROTT ROAD DUMP

### Analysis Summary

The Parrott Road Dump which covers 32 hectares (80 acres) in New Haven, Indiana, is situated between the Norfolk and Western Railroad and the Maumee River (Figure 21). Parrott Road divides the dump into northern and southern portions. Regional drainage is to the east along the Maumee River. Drainage from the site is along a drainage ditch which parallels the borders of the site and eventually flows into the river.

Black-and-white and color photographs from 1951, 1957, 1964, 1972, and 1984 were used in this analysis. Waste disposal activity began sometime between 1957 and 1964, when only the southern portion of the site was used for waste disposal. By 1972, solid wastes which are partially revegetated, cover the entire site. Leachate and runoff from the dump may be migrating away from the site via the drainage ditch.



August 10, 1951

Figure 22 shows the future location of the Parrott Road Dump. The area is largely agricultural with several farm buildings, a large barn, and open fields. An elongate pond is located in the southeast portion of the site and an area of erosion is noted immediately south of it.

Although no solid waste materials are seen at the site some ground scars and water-filled depressions are observed just south of the barn.





## INTERPRETATION CODE

### BOUNDARIES AND LIMITS

- x-x-x-x FENCED SITE BOUNDARY
- UNFENCED SITE BOUNDARY
- x x x x x FENCE
- - - - - PROPERTY LINE
- GATE/ACCESS POINT
- + SECTION CORNER

### DRAINAGE

- ← - - - - - DRAINAGE
- ← FLOW DIRECTION
- ← - - - - - INDETERMINATE DRAINAGE

### TRANSPORTATION/UTILITY

- ===== VEHICLE ACCESS
- + + + + + RAILWAY
- ..... PIPELINE
- - - - - POWERLINE

### SITE FEATURES

- ||||| DIKE
- SL STANDING LIQUID (SMALL)
- EXCAVATION, PIT (EXTENSIVE)
- MOUNDED MATERIAL (EXTENSIVE)
- MM MOUNDED MATERIAL (SMALL)
- CR CRATES/BOXES
- DR DRUMS
- HT HORIZONTAL TANK
- PT PRESSURE TANK
- VT VERTICAL TANK
- CA CLEARED AREA
- DG DISTURBED GROUND
- FL FILL
- IM IMPOUNDMENT
- LG LAGOON
- OD OPEN DUMP
- OF OUTFALL
- SD SLUDGE
- ST STAIN
- SW SOLID WASTE
- TR TRENCH
- WD WASTE DISPOSAL AREA

Figure 22. Parrott Road Dump, August 10, 1951. Approximate scale 1:6,000.



June 20, 1957

By 1957 (Figure 23) there is evidence of excavation and trenching activity, but not of waste disposal, in the southern portion of the site. A group of new buildings with adjacent parking, occupies the eastern edge of this area. Numerous ground scars are noted near the pond and along a new access road which runs through the site.

Most of the scarred area seen in 1951 (Figure 22) just south of the barn has been revegetated and the water-filled depressions are no longer visible.





## INTERPRETATION CODE

### BOUNDARIES AND LIMITS

- x—x—x—x— FENCED SITE BOUNDARY
- UNFENCED SITE BOUNDARY
- x x x x x FENCE
- PROPERTY LINE
- ┌┐ GATE/ACCESS POINT
- + SECTION CORNER

### DRAINAGE

- ←----- DRAINAGE
- ←----- FLOW DIRECTION
- ↔-----↔ INDETERMINATE DRAINAGE

### TRANSPORTATION/UTILITY

- ===== VEHICLE ACCESS
- + + + + + RAILWAY
- ..... PIPELINE
- POWERLINE

### SITE FEATURES

- |||||| DIKE
- ===== STANDING LIQUID
- SL STANDING LIQUID (SMALL)
- ⬭ EXCAVATION, PIT (EXTENSIVE)
- ⬭ MOUNDED MATERIAL (EXTENSIVE)
- MM MOUNDED MATERIAL (SMALL)
- CR CRATES/BOXES
- DR DRUMS
- HT HORIZONTAL TANK
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- CA CLEARED AREA
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Figure 23. Parrott Road Dump, June 20, 1957. Approximate scale 1:6,000.



July 5, 1964

Figure 24 shows that solid waste disposal now dominates the western half of the site. In the northern portion of the site, just to the east of the farm buildings, several areas of solid wastes are divided by dikes. Also, two trenches now parallel both sides of Parrott Road. In the southern portion of the disposal area, there are three areas of solid waste and two locations of mounded material which may also contain solid wastes. Standing liquid in small pools, noted near a solid waste pile, may contain seepage.


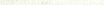


In the eastern half of the site the widespread scars seen in 1957 are now revegetated.








**INTERPRETATION CODE**

## BOUNDARIES AND LIMITS

- |   |                        |
|---|------------------------|
| X - X - X -   | FENCED SITE BOUNDARY   |
|  | UNFENCED SITE BOUNDARY |
| X X X X X   | FENCE                  |
|  | PROPERTY LINE          |
|  | GATE/ACCESS POINT      |
|  | SECTION CORNER         |





## DRAINAGE

-  DRAINAGE  
 FLOW DIRECTION  
 INDETERMINATE DRAINAGE

## TRANSPORTATION/UTILITY

- ===== VEHICLE ACCESS  
 +++ RAILWAY  
 ..... PIPELINE  
 - - - - - POWERLINE

## SITE FEATURES

- |   |                              |
|---|------------------------------|
|  | DIKE                         |
|  | STANDING LIQUID              |
| SL  | STANDING LIQUID (SMALL)      |
|  | EXCAVATION, PIT (EXTENSIVE)  |
|  | MOUNDED MATERIAL (EXTENSIVE) |
| MM  | MOUNDED MATERIAL (SMALL)     |
| CR  | CRATES/BOXES                 |
| DR  | DRUMS                        |
| HT  | HORIZONTAL TANK              |
| PT  | PRESSURE TANK                |
| VT  | VERTICAL TANK                |
| CA  | CLEARED AREA                 |
| DG  | DISTURBED GROUND             |
| FL  | FILL                         |
| IM  | IMPOUNDMENT                  |
| LG  | LAGOON                       |
| OD  | OPEN DUMP                    |
| OF  | OUTFALL                      |
| SD  | SLUDGE                       |
| ST  | STAIN                        |
| SW  | SOLID WASTE                  |
| TR  | TRENCH                       |
| WD  | WASTE DISPOSAL AREA          |



June 7, 1972

By 1972 (Figure 25) large-scale changes have taken place at the dump site. The entire site is now a landfill mound which is largely revegetated. The farm buildings previously seen at the site have been removed. A nearly dry depression now marks the previous location of the site pond. Solid waste disposal is noted outside the eastern perimeter of the site.





Figure 25. Parrott Road Dump, June 7, 1972. Approximate scale 1:8,000.

## INTERPRETATION CODE

### BOUNDARIES AND LIMITS

- x—x—x FENCED SITE BOUNDARY
- UNFENCED SITE BOUNDARY
- x x x x x FENCE
- - - - - PROPERTY LINE
- GATE/ACCESS POINT
- + SECTION CORNER

### DRAINAGE

- DRAINAGE
- FLOW DIRECTION
- INDETERMINATE DRAINAGE

### TRANSPORTATION/UTILITY

- = = = = VEHICLE ACCESS
- + + + + RAILWAY
- ..... PIPELINE
- - - - - POWERLINE

### SITE FEATURES

- ||||| DIKE
- STANDING LIQUID
- SL STANDING LIQUID (SMALL)
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- WD WASTE DISPOSAL AREA



July 12, 1984

Figures 26 and 27 show the current condition of the dump site. All areas contain stressed vegetation which is stunted and discolored by comparison to the surrounding areas. The buildings and parking area previously located in the southeastern portion of the site have been removed with only one foundation remaining.

The southern half of the site is now bisected by an east-west trending drainage channel. Dead vegetation and unvegetated areas follow the trend of this channel. Four areas of standing liquid (possibly containing seepage) are seen along this channel. Dead vegetation is also noted along a short drainage path emanating from a breach in the dike which parallels Parrott Road.

In the northern portion of the site, a new road has been established along the northern site boundary. A shallow pit and two areas of white residue are also observed. Just outside the site boundary, two areas of standing liquid are seen which may contain seepage.





Figure 26. Parrott Road Dump, July 12, 1984. Approximate scale 1:6,000.

## INTERPRETATION CODE

### BOUNDARIES AND LIMITS

- x-x-x-x FENCED SITE BOUNDARY
- UNFENCED SITE BOUNDARY
- x x x x x FENCE
- - - - - PROPERTY LINE
- GATE/ACCESS POINT
- + SECTION CORNER

### DRAINAGE

- ← - - - - DRAINAGE
- ← FLOW DIRECTION
- ↔ - - - - - INDETERMINATE DRAINAGE

### TRANSPORTATION/UTILITY

- ===== VEHICLE ACCESS
- + + + + + RAILWAY
- ..... PIPELINE
- - - - - POWERLINE

### SITE FEATURES

- |||||| DIKE
- |||||| STANDING LIQUID
- SL STANDING LIQUID (SMALL)
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